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| FORM PTO-1449 | ATTY. DOCKET NO. 0077.20 (1778.0120002) | APPLICATION NO. 09/364,786 |
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| INFORMATION DISCLOSURE STATEMENT | APPLICANT Thekkath *et al.* | |
| | FILING DATE July 30, 1999 | GROUP 2672 |

## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---|---|---|---|---|---|---|---|
| D7L | AA1 | 4,866,652 | 09/1989 | Chu *et al.* | | | |
| D7L | AB1 | 5,025,407 | 06/1991 | Gulley *et al.* | | | |
| D7L | AC1 | 5,159,665 | 10/1992 | Priem *et al.* | | | |
| D7L | AD1 | 5,206,823 | 04/1993 | Hesson | | | |
| D7L | AE1 | 5,220,524 | 06/1993 | Hesson | | | |
| D7L | AF1 | 5,257,216 | 10/1993 | Sweedler | | | |
| D7L | AG1 | 5,278,949 | 01/1994 | Thayer | | | |
| D7L | AH1 | 5,341,321 | 08/1994 | Karp *et al.* | | | |
| D7L | AI1 | 5,367,650 | 11/1994 | Sharangpani *et al.* | | | |
| D7L | AJ1 | 5,420,966 | 05/1995 | Silverbrook | | | |
| D7L | AK1 | 5,420,971 | 05/1995 | Westerink *et al.* | | | |

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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---|---|---|---|---|---|---|---|
| | AL1 | | | | | | Yes No |
| | AM1 | | | | | | Yes No |
| | AN1 | | | | | | Yes No |
| | AO1 | | | | | | Yes No |
| | AP1 | | | | | | Yes No |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|---|---|---|---|
| D7L | AR | 1 | Higaki, N. *et al.*, "A 2.5 GFLOPS 6.5 Million Polygons per Second 4-Way VLIW Geometry Processor with SIMD Instructions and a Software Bypass Mechanism," *1999 IEEE International Solid-State Circuits Conference*, IEEE, 11 pages (publication date unknown, conference dates: February 15-17, 1999). |
| D7L | AS | 1 | Hughes, J.K., *PL/I Programming*, John Wiley & Sons, pp. 5, 15, 16, 74, 75, 188, 189, 327, 411-416, 423, 424, 689 and 690 (1973). |
| D7L | AT | 1 | Ito, M. *et al.*, "Efficient Initial Approximation for Multiplicative Division and Square Root by a Multiplication with Operand Modification," *IEEE Transactions on Computers*, IEEE, Vol. 46, No. 4, pp. 495-498 (April 1997). |

| EXAMINER  Daniel  Chung | DATE CONSIDERED  6/28/05 |
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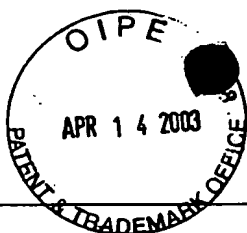| | | | |
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| FORM PTO-1449<br><br>INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO.<br>0077.20    (1778.0120002) | | APPLICATION NO.<br>09/364,786 |
| | APPLICANT<br>Thekkath *et al.* | | |
| | FILING DATE<br>July 30, 1999 | | GROUP<br>2672 |

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|---|---|---|---|---|---|---|---|
| D?C | AA2 | 5,530,663 | 06/1996 | Garcia *et al.* | | | |
| D?C | AB2 | 5,805,486 | 09/1998 | Sharangpani | | | |
| D?C | AC2 | 5,847,979 | 12/1998 | Wong *et al.* | | | |
| D?C | AD2 | 5,880,983 | 03/1999 | Elliott *et al.* | | | |
| D?C | AE2 | 5,889,690 | 03/1999 | Arakawa | | | |
| D?C | AF2 | 5,892,698 | 04/1999 | Naffziger | | | |
| D?C | AG2 | 5,923,577 | 07/1999 | Wong *et al.* | | | 10/21/1996 |
| D?C | AH2 | 5,928,316 | 07/1999 | Wong *et al.* | | | 11/18/1996 |
| D?C | AI2 | 5,999,960 | 12/1999 | Gerwig *et al.* | | | 12/16/1996 |
| D?C | AJ2 | 6,169,554 B1 | 01/2001 | Deering | | | 06/30/1997 |
| D?C | AK2 | 6,175,370 B1 | 01/2001 | Kunimatsu | | | 01/31/1997 |

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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---|---|---|---|---|---|---|---|
| | AL2 | | | | | | Yes<br>No |
| | AM2 | | | | | | Yes<br>No |
| | AN2 | | | | | | Yes<br>No |
| | AO2 | | | | | | Yes<br>No |
| | AP2 | | | | | | Yes<br>No |

### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

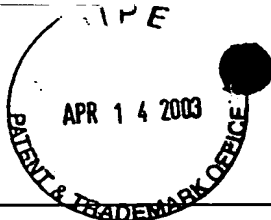| | | | |
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| D?C | AR | 2 | Kubosawa, H. *et al.*, "A 2.5-GFLOPS, 6.5 Million Polygons per Second, Four-Way VLIW Geometry Processor with SIMD Instructions and a Software Bypass Mechanism," *IEEE Journal of Solid-State Circuits*, IEEE, Vol. 34, No. 11, pp. 1619-1626 (November 1999) (appears to correspond to document AR1, Hikagi, N. *et al.*). |
| D?C | AS | 2 | "MIPS Extension for Digital Media with 3D," MIPS Technologies, Inc., pages 1-26 (March 1997). |
| D?C | AT | 2 | "MIPS IV Instruction Set," Revision 3.2, MIPS Technologies, Inc., pages B-21, B-22, B-26, B-28, B-38, B-39, B-40, B-41, B-42, B-47, B-48, B-49, B-55, B-95, B-96 (September 1995). |

| EXAMINER    Daniel    Chang | DATE CONSIDERED  6/28/02 |
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| D7( | AB3 | 6,275,838 B1 | 08/2001 | Blomgren *et al.* | | | 10/28/1998 |
| D7( | AC3 | 6,426,746 B2 | 07/2002 | Hsieh *et al.* | | | 03/31/1998 |
| D7( | AD3 | 4,839,846 | 06/1989 | Hirose *et al.* | | | |
| D7( | AE3 | 5,038,313 | 08/1991 | Kojima | | | |
| D7( | AF3 | 5,511,016 | 04/1996 | Béchade | | | |
| D7( | AG3 | 5,550,767 | 08/1996 | Taborn *et al.* | | | |
| D7( | AH3 · | 5,553,015 | 09/1996 | Elliott *et al.* | | | |
| D7( | AI3 | 5,602,769 | 02/1997 | Yu *et al.* | | | |
| D7( | AJ3 | 6,199,089 B1 | 03/2001 | Mansingh | | | 09/18/1998 |
| D7 | AK3 | 6,510,446 B1 | 01/2003 | Fukagawa | | | 11/22/1999 |

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|---|---|---|---|---|---|---|---|
| | AL3 | | | | | | Yes<br>No |
| | AM3 | | | | | | Yes<br>No |
| | AN3 | | | | | | Yes<br>No |
| | AO3 | | | | | | Yes<br>No |
| | AP3 | | | | | | Yes<br>No |

### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

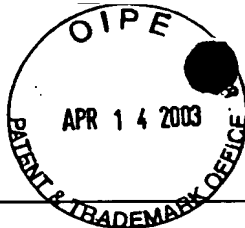| | | | |
|---|---|---|---|
| D7( | AR | 3 | "MIPS V Instruction Set," Revision 1.0, MIPS Technologies, Inc., pages B-1 - B-37 (1996). |
| D7( | AS | 3 | Sweetman, D., *See MIPS Run*, Morgan Kaufmann Publishers, Inc., ISBN 1-55860-410-3, pp. vii-xiv, 149-173, and 201-242 (1999). |
| | AT | 3 | |

| EXAMINER   Daniel   J   Cheng | DATE CONSIDERED   6/28/03 |
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| FORM PTO-1449 | | | ATTY. DOCKET NO. 0077.20 (1778.0120002) | | | APPLICATION NO. 09/364,786 | | |
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| | | | FILING DATE July 30, 1999 | | | GROUP 2672 | | |

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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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| ⟩⟨ | AA4 | 5,631,859 | 05/1997 | Markstein *et al.* | | | |
| ⟩⟨ | AB4 | 5,652,875 | 07/1997 | Taylor | | | |
| ⟩⟨ | AC4 | 5,671,170 | 09/1997 | Markstein *et al.* | | | |
| ⟩⟨ | AD4 | 5,701,442 | 12/1997 | Ronen | | | |
| ⟩⟨ | AE4 | 5,768,170 | 06/1998 | Smith | | | |
| ⟩⟨ | AF4 | 5,995,122 | 11/1999 | Hsieh *et al.* | | | 04/30/1998 |
| ⟩⟨ | AG4 | 5,996,066 | 11/1999 | Yung | | | 10/10/1996 |
| | AH4 | | | | | | |
| | AI4 | | | | | | |
| | AJ4 | | | | | | |
| | AK4 | | | | | | |

### FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---|---|---|---|---|---|---|---|
| | AL4 | | | | | | Yes No |
| | AM4 | | | | | | Yes No |
| | AN4 | | | | | | Yes No |
| | AO4 | | | | | | Yes No |
| | AP4 | | | | | | Yes No |

### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|---|---|---|---|
| | AR | 4 | |
| | AS | 4 | |
| | AT | 4 | |

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